

**METHOD TO ACHIEVE HIGHER TRACK DENSITY  
BY ALLOWING ONLY ONE-SIDED TRACK ENCROACHMENT**

**Abstract of the Disclosure**

5           A disc drive includes a transducer having a separate element for  
writing information and a separate element for reading information to and from the  
disc. In a disc drive designated to read and write long sequential records, the track  
misregistration budget is reduced to account for previously written tracks not being  
encroached on one side. An initial track is written. Subsequent tracks are written  
10 after a seek in one direction. The subsequent track is written so that the initially  
written track is overwritten to one side and leaves a track having a width  
substantially equal to the width of the read element. Records can be written into  
data bands of a selected number of tracks. A guard band is left between groups of  
data bands so that data on tracks in subsequent data bands are not overwritten.

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